

Scott County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/28/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 17 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Scott County economy.¹

These 17 sectors have a total direct output of approximately **\$722.2 million** and support **632.2 jobs** in Scott County. Running the model for all 17 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Scott County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	632.2	19.44%	\$140,930,173	47.72%	\$722,155,933	244.54%
Indirect Effect	409.4	12.59%	\$34,805,959	11.79%	\$62,323,836	21.10%
Induced Effect	324.8	9.99%	\$20,661,273	7.00%	\$37,231,596	12.61%
Total Effect	1,366.3	42.01%	\$196,397,406	66.51%	\$821,711,365	278.25%

As shown in the above table, agriculture, food, and food processing sectors support **1,366.3 jobs**, or **42.01%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$821.7 million**, roughly **278.25% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 17 agriculture, food, and food processing sectors is approximately **\$196.4 million**, or **66.51% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **66.51% of the total economy**.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **462.0 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Scott County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	462.0	\$472,468,284
Wholesale trade	101.8	\$22,959,097
Support activities for agriculture and forestry	83.1	\$8,859,329
Monetary authorities and depository credit intermediation	43.8	\$7,161,351
Hospitals	37.2	\$5,216,629
Truck transportation	36.3	\$5,672,133
Limited-service restaurants	32.4	\$2,327,795
Animal production, except cattle and poultry and eggs	31.9	\$17,300,647
Grain farming	27.3	\$61,630,212
Landscape and horticultural services	25.7	\$1,033,484

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$472.5 million** to the Scott County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	462.0	\$472,468,284
Soybean and other oilseed processing	24.1	\$124,877,282
Grain farming	27.3	\$61,630,212
Wholesale trade	101.8	\$22,959,097
Animal production, except cattle and poultry and eggs	31.9	\$17,300,647
Flour milling	11.3	\$16,125,894
Other animal food manufacturing	8.6	\$11,478,493
Support activities for agriculture and forestry	83.1	\$8,859,329
Owner-occupied dwellings	0.0	\$8,710,159
Dairy cattle and milk production	12.3	\$7,715,358

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Scott County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	0.1	\$711,158.45
Grain farming	27.3	\$61,630,210.88
Greenhouse, nursery, and floriculture production	1.1	\$233,023.52
All other crop farming	6.5	\$3,147,869.35
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	462.0	\$472,468,261.72
Dairy cattle and milk production	12.3	\$7,715,357.78
Poultry and egg production	0.5	\$714,820.44
Animal production, except cattle and poultry and eggs	31.9	\$17,300,645.83
Other animal food manufacturing	8.6	\$11,478,492.74
Flour milling	11.3	\$16,125,894.55
Soybean and other oilseed processing	24.1	\$124,877,288.82
Animal, except poultry, slaughtering	1.9	\$1,323,188.07
Bread and bakery product, except frozen, manufacturing	3.0	\$362,199.07
Frozen cakes and other pastries manufacturing	0.2	\$26,918.40
Bottled and canned soft drinks & water	2.2	\$1,497,707.84
Veterinary services	13.5	\$1,509,395.24
Landscape and horticultural services	25.7	\$1,033,483.86

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Scott County, the retail sector was omitted.